

## **Energy Technologies**

Energy Technologies, Inc. manufactures power conditioning, backup power systems (i.e. UPS), as well as monitoring and control of the attached loads. We have recently successfully designed and qualified a power conditioner and/or UPS for the FAA WAAS (Wide Area Augmentation System).

WAAS is an improved flight navigation system that allows more direct and more precise routing of flights, both civilian and military. Every airport in the US and eventually the world will have this installed. The current test bed includes over 100 airports in the US. These installations are monitored by three central control centers, which are redundant to each other.

Besides the fact that our product provides high quality and high reliability power to each of these nodes and centers, this product also provides network management capabilities. Each ETI Network Power Manager (NPM) is monitoring the local power conditions, its own performance and all of the electronic equipment attached to it. The NPM also controls startup and shutdown succession in programmable patterns that minimize power surges on the facilities while following necessary operational sequences.

Via its Ethernet port and SNMP, the central control centers are able to communicate with each of the NPMs. The operator need only touch a point on his screen to bring up the status at any of the remote locations. Further he can interrogate the system regarding individual loads. Taking this a step further, he can cycle the power to a given load, rebooting that piece of equipment via the NPM without having to dispatch a person to the site.

Dan Madden, P.E.  
General Manager  
Energy Technologies, Inc.